

ABSTRACT

5 Oral formulations of pharmaceuticals are provided with enhanced bioavailability
by targeting specific regions of the gastrointestinal tract. Particularly, water soluble and
acid-labile drugs such as cytidine analogs (e.g., decitabine) and 2'-deoxyadenosine
analogues (e.g., pentostatin) are formulated with pH-sensitive polymers so that these drugs
are preferably absorbed in the upper regions of the small intestine, such as the jejunum. In
10 addition, drugs with poor oral bioavailability such as camptothecin compounds (e.g., 9-
nitro-camptothecin) can also be formulated using similar strategies in order to significantly
improve their oral bioavailability. These formulations can be used to treat a wide variety
of diseases or conditions, such as hematological disorders, benign tumors, cancer, restenosis,
inflammatory diseases, and autoimmune diseases.

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